

IN THE CLAIMS:

Please amend the claims as follows:

1. *(currently amended)* A method for High-Speed Downlink Packet Access signaling for Time Division Duplex mode of a wireless communication system, comprising ~~the following steps:~~
a base station sending indication information to a mobile terminal device ~~(UE)~~;
the mobile terminal device ~~(UE)~~ identified by the said indication information receiving signaling information;
said mobile terminal device, based on the said signaling information, decoding packet data information;
wherein a High-Speed Indicator designates a specific mobile terminal device accessible in a downlink channel,
~~characterized by the steps of:~~ wherein said method further comprises
 [[-]] including said High-Speed Indicator into the slot structure of a Paging Indicator Channel ~~(PICH)~~, said High-Speed Indicator comprising a plurality of identification bits, each identification bit being assigned.
2. *(currently amended)* A method according to claim 1, wherein said plurality of identification bits are four identification bits arranged in two pairs each of two bits on either side of and adjacent to a midamble area of said Paging Indicator Channel ~~(PICH)~~.
3. *(currently amended)* A method according to claim 1, further comprising ~~the following further step:~~
 [[-]] dividing a plurality of mobile terminal devices upon a plurality of groups.
4. *(currently amended)* A method according to claim 3, further comprising ~~the following further step:~~
 [[-]] assigning certain periods of time to each group,
wherein each mobile terminal device of a group receives data transmitted within said periods of time assigned to said respective group via said Paging Indicator Channel ~~(PICH)~~.

5. *(currently amended)* A method according to claim 3, further comprising ~~the following further step~~:
 [[-]] assigning a High-Speed Indicator to each mobile terminal device of a group.
6. *(previously presented)* A method according to claim 4, wherein said periods of time of a group are assigned according to the data traffic of the group.
7. *(currently amended)* A method according to claim 1, further comprising ~~the following further step~~:
 [[-]] receiving information on said Paging Indicator Channel ~~(PICH)~~ by a mobile terminal device.
8. *(currently amended)* A method according to claim 1, further comprising ~~the following further step~~:
 [[-]] receiving signaling information on a High-Speed Shared Control Channel ~~(HS-SCCH)~~ by a mobile terminal device.
9. *(currently amended)* A method according to claim 7, further comprising ~~the following further step~~:
 [[-]] receiving and decoding data packets on a Downlink Shared Channel ~~(DSCH)~~ by a mobile terminal device,
 wherein ~~the receiving and decoding step employs~~ employ said signaling information received on said High-Speed Shared Control Channel ~~(HS-SCCH)~~.
10. *(currently amended)* A method according to claim 1, further comprising ~~the following further step~~:
 [[-]] transmitting transmission related information.
11. *(previously presented)* A method according to claim 1, wherein said identification bits code a binary address of a mobile terminal device.

12. *(previously presented)* A method according to claim 1, wherein said identification bits code a logical address of a mobile terminal device.
13. *(previously presented)* A method according to claim 3, wherein said dividing a plurality of mobile terminal devices upon a plurality of groups is based on the data traffic.
14. *(previously presented)* A method according to claim 3, wherein said dividing a plurality of mobile terminal devices upon a plurality of groups is based on an N channel Hybrid Automatic Repeat Request scheme.
15. *(previously presented)* A computer program for executing a method for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system, comprising program code means for carrying out each of the steps of claim 1 when said program is run on a computer, a network device, a mobile device, or an application specific integrated circuit.
16. *(previously presented)* A computer program product comprising program code means stored on a computer readable medium for carrying out each of the steps of the method for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system of claim 1 when said program product is run on a computer, a network device, a mobile device, or an application specific integrated circuit.
17. *(currently amended)* A mobile terminal device for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system, comprising: ~~means adapted to perform each of the steps of the method for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system according to claim 1~~ a receiver for receiving signaling information from a base station; and
an interface, responsive to said signaling information, for decoding packet data information;
wherein a high-speed indicator designates a specific mobile terminal device accessible in a downlink channel; and

wherein said high-speed indicator is included into a slot structure of a paging indicator channel, said high-speed indicator comprising a plurality of identification bits, each identification bit being assigned.

18. *(currently amended)* A wireless communication system for High-Speed Downlink Packet Access for Time Division Duplex mode, comprising: ~~means adapted to perform a method for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system according to claim 1~~

a base station for sending indication information to a mobile terminal device;

wherein said mobile terminal device comprises:

a receiver for receiving signaling information from said base station; and

an interface, responsive to said signaling information, for decoding packet data information;

wherein a high-speed indicator designates a specific mobile terminal device accessible in a downlink channel; and

wherein said high-speed indicator is included into a slot structure of a paging indicator channel, said high-speed indicator comprising a plurality of identification bits, each identification bit being assigned.

19. *(new)* The mobile terminal device according to claim 17, wherein said plurality of identification bits are four identification bits arranged in two pairs each of two bits on either side of and adjacent to a midamble area of said Paging Indicator Channel.

20. *(new)* A mobile terminal device for High-Speed Downlink Packet Access for Time Division Duplex mode of a wireless communication system, comprising:
means for receiving signaling information from a base station; and
means, responsive to said signaling information, for decoding packet data information;
wherein a high-speed indicator designates a specific mobile terminal device accessible in a downlink channel; and

wherein said high-speed indicator is included into a slot structure of a paging indicator channel, said high-speed indicator comprising a plurality of identification bits, each identification bit being assigned.